

## Appendix 1: Search strategy and results

### *Embase search strategy*

- Keywords: ('spine'/exp OR spine OR 'lumbar fusion'/exp OR 'lumbar fusion' OR (lumbar AND ('fusion'/exp OR fusion)) OR tlif OR acdf OR plif OR alif) AND ('marijuana'/exp OR marijuana OR 'cannabis'/exp OR cannabis OR thec OR cbd OR 'cannabidiol'/exp OR cannabidiol OR 'nabilone'/exp OR nabilone OR 'dronabinol'/exp OR dronabinol)
- Results: 532 studies

### *PubMed search strategy*

- Keywords: ("spine"[MeSH Terms] OR "spine"[All Fields] OR "spines"[All Fields] OR "spine s"[All Fields] OR ("lumbarised"[All Fields] OR "lumbarization"[All Fields] OR "lumbarized"[All Fields] OR "lumbars"[All Fields] OR "lumbosacral region"[MeSH Terms] OR ("lumbosacral"[All Fields] AND "region"[All Fields]) OR "lumbosacral region"[All Fields] OR "lumbar"[All Fields]) AND ("fusion"[All Fields] OR "fusions"[All Fields])) OR "TLIF"[All Fields] OR "ACDF"[All Fields] OR "PLIF"[All Fields] OR "ALIF"[All Fields]) AND ("cannabis"[MeSH Terms] OR "cannabis"[All Fields] OR "marijuana"[All Fields] OR "marijuana s"[All Fields] OR ("cannabis"[MeSH Terms] OR "cannabis"[All Fields] OR "cannabi"[All Fields] OR "cannabis s"[All Fields]) OR ("dronabinol"[MeSH Terms] OR "dronabinol"[All Fields] OR "thc"[All Fields]) OR "CBD"[All Fields] OR ("cannabidiol"[MeSH Terms] OR "cannabidiol"[All Fields] OR "cannabidiolic"[All Fields]) OR ("nabilone"[Supplementary Concept] OR "nabilone"[All Fields]) OR ("dronabinol"[MeSH Terms] OR "dronabinol"[All Fields] OR "dronabinol s"[All Fields]))
- Results: 140 studies

### *Scopus search strategy*

- Keywords: TITLE-ABS-KEY ((spine) OR (lumbar AND fusion) OR (tlif) OR (acdf) OR (plif) OR (alif)) AND ((marijuana) OR (cannabis) OR (thc) OR (cbd) OR (cannabidiol) OR (nabilone) OR (dronabinol))
- Results: 820 studies
- Duplicates removed: 446